

IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Amended) A method of generating a maximum entropy speech model for a speech recognition system, the method comprising in which:

~~by evaluating a training corpus, wherein first~~  
probability values  $p_{ind}(w | h)$  are formed for N-grams with  $N \geq 0$ ;

~~an estimating e- of second probability values  $p_{\lambda}(w | h)$ , which represent speech model values of the maximum entropy speech model, is made in dependence on using the first~~  
probability values;

~~determining boundary values  $m_{\alpha}$  are determined which~~  
correspond to the equation

$$m_{\alpha} = \sum_{(h,w)} p_{ind}(w|h) \cdot N(h) \cdot f_{\alpha}(h,w)$$

where  $N(h)$  is the rate of occurrence of the respective history  $h$  in the training corpus and  $f_{\alpha}(h, w)$  is a filter function which has a value different from zero for specific N-grams predefined a priori and featured by the index  $\alpha$ , and otherwise has the zero value;

- an iteration of speech model values of the maximum entropy speech model is continued to be made until values  $m_{\alpha}^{(n)}$  determined in the  $n^{th}$  iteration step according to the formula

$$m_{\alpha}^{(n)} = \sum_{(h,w)} p_{\lambda}^{(n)}(w|h) \cdot N(h) \cdot f_{\alpha}(h,w)$$

sufficiently accurately approach the boundary values  $m_{\alpha}$  according to a predefinable convergence criterion.

2. (Previously Amended) A method as claimed in claim 1, characterized in that for the iteration of the speech model values of the maximum entropy speech model, the GIS algorithm is used.

b) 3. (Previously Amended) A method as claimed in claim 1, characterized in that a backing-off speech model is provided for producing the first probability values.

4. (Currently Amended) A method as claimed in claim 1, characterized in that for calculating the boundary values  $m_{\alpha}$  for various sub-groups, which summarize groups of a specific  $\alpha$ , various first probability values  $p_{ind}(w | h)$  are used.

5. (Canceled).

6. (New) A method of generating a maximum entropy speech model for a speech recognition system, the method comprising:

evaluating a training corpus, wherein first probability values are formed for N-grams;

estimating of second probability values, which represent speech model values of the maximum entropy speech model, using the first probability values;

determining boundary values which use a rate of occurrence of the respective history in the training corpus and a filter function which has a value different from zero for specific N-grams predefined a priori and featured by an index, and otherwise has the zero value;

continuing iterations of speech model values of the maximum entropy speech model until a sufficiently accurately approach the boundary values according to a predefined convergence criterion.

B1 7. (New) A speech recognition system comprising a processor configurable with a maximum entropy speech model to evaluate a training corpus, wherein first probability values are formed for N-grams; estimate of second probability values, which represent speech model values of the maximum entropy speech model, using the first probability values; determine boundary values which use a rate of occurrence of the respective history in the training corpus and a filter function which has a value different from zero for specific N-grams predefined a priori and featured by an index, and otherwise has the zero value; continue iterations of speech model values of the maximum entropy speech model until a sufficiently accurately approach the boundary values according to a predefined convergence criterion.

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